

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P836033

Luminaire Tested: **ARCH3-130-727-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-130-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1035mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12745 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 132.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

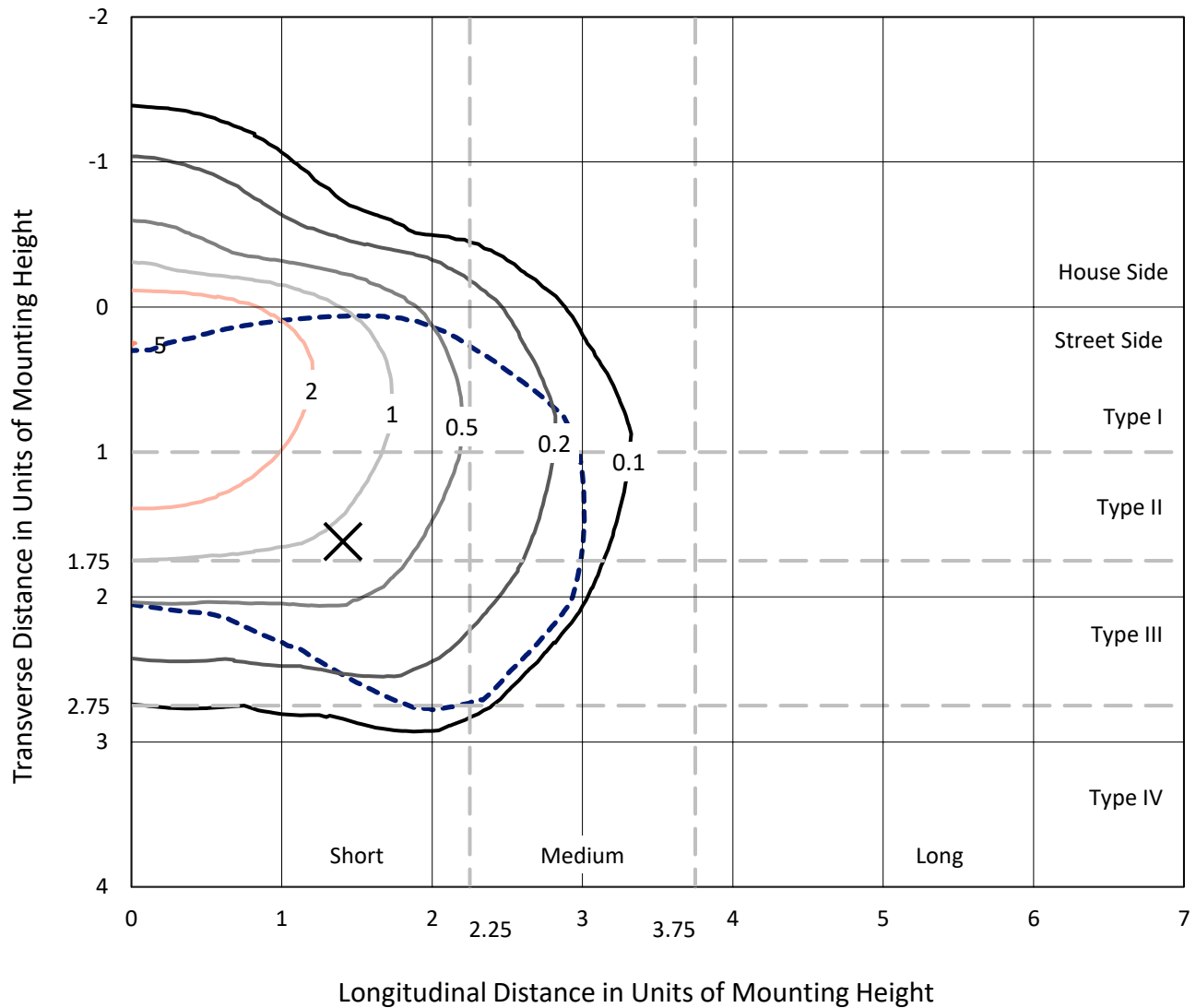


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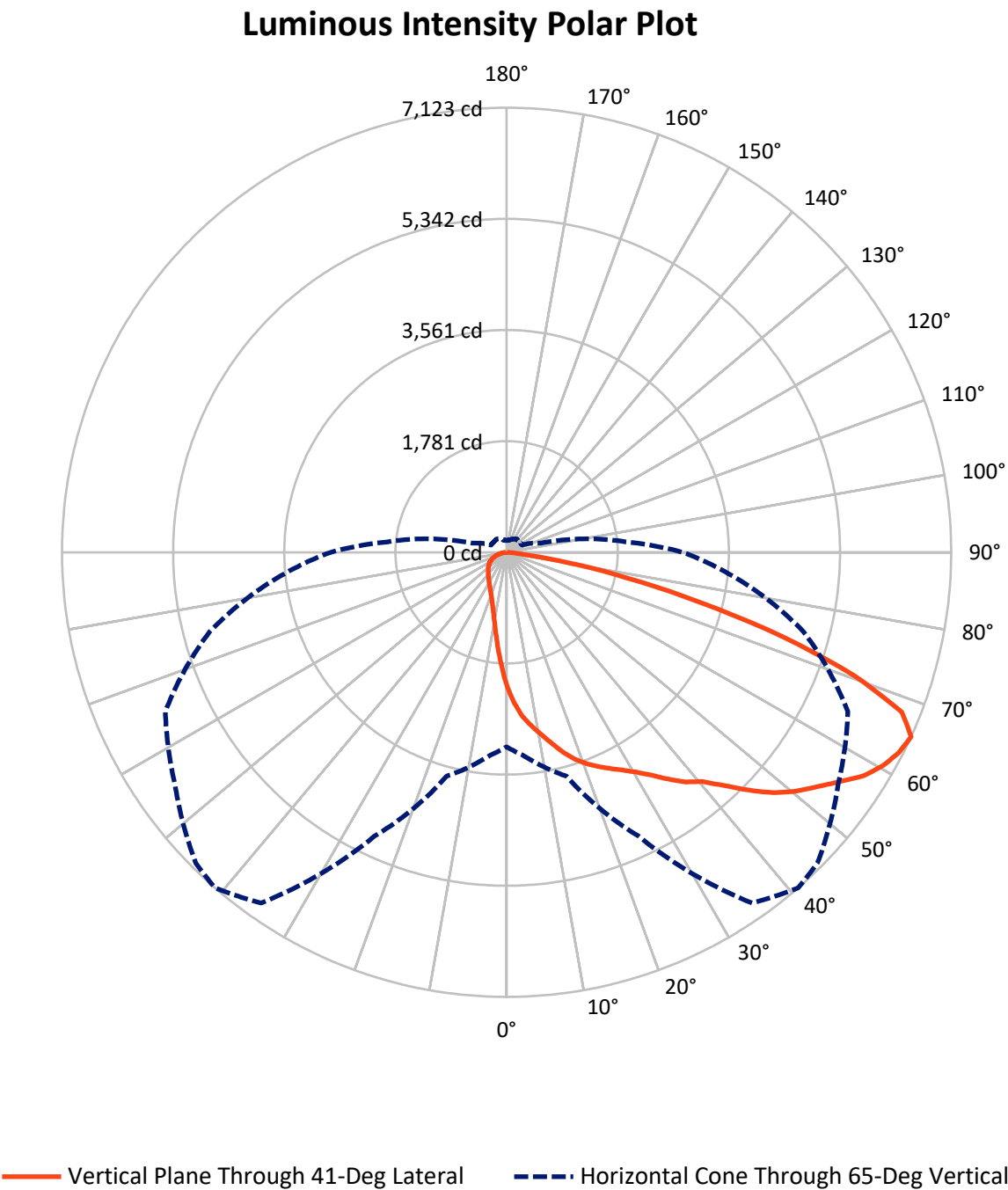
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type III - Short - N/A

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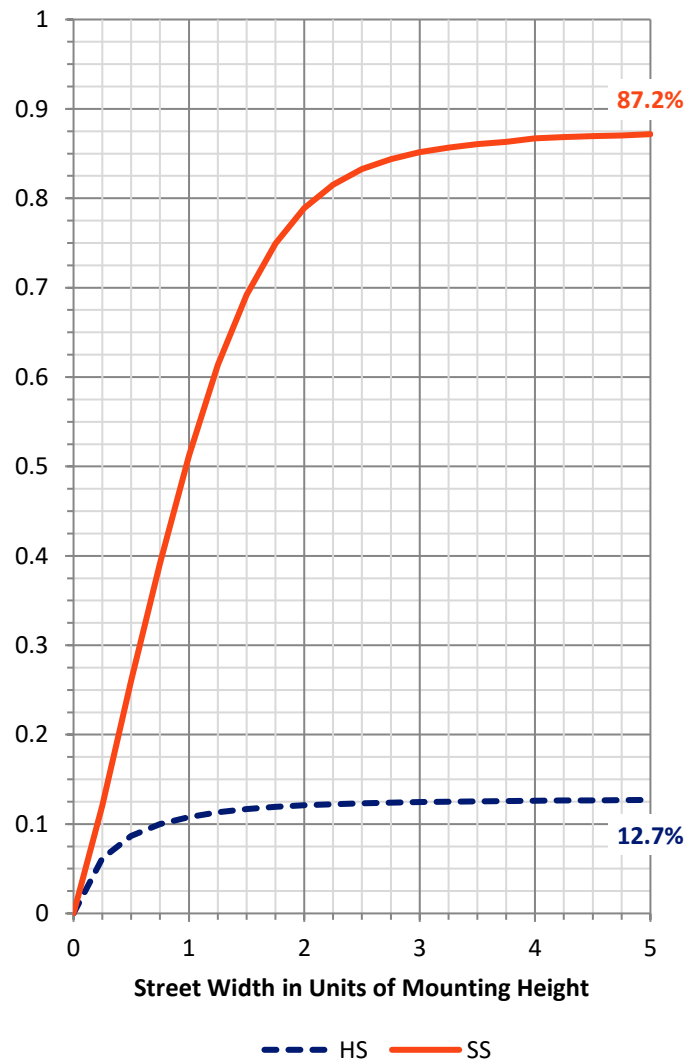
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1636.3	0.0	1636.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	11108.7	0.0	11108.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	12745.0	0.0	12745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	1.6
10°-20°	606.7	4.8
20°-30°	1043.8	8.2
30°-40°	1583.1	12.4
40°-50°	2319.3	18.2
50°-60°	2928.8	23.0
60°-70°	2746.3	21.5
70°-80°	1224.0	9.6
80°-90°	90.7	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	12745.0	100.0
0°-180°	12745.0	100.0

Coefficient of Utilization



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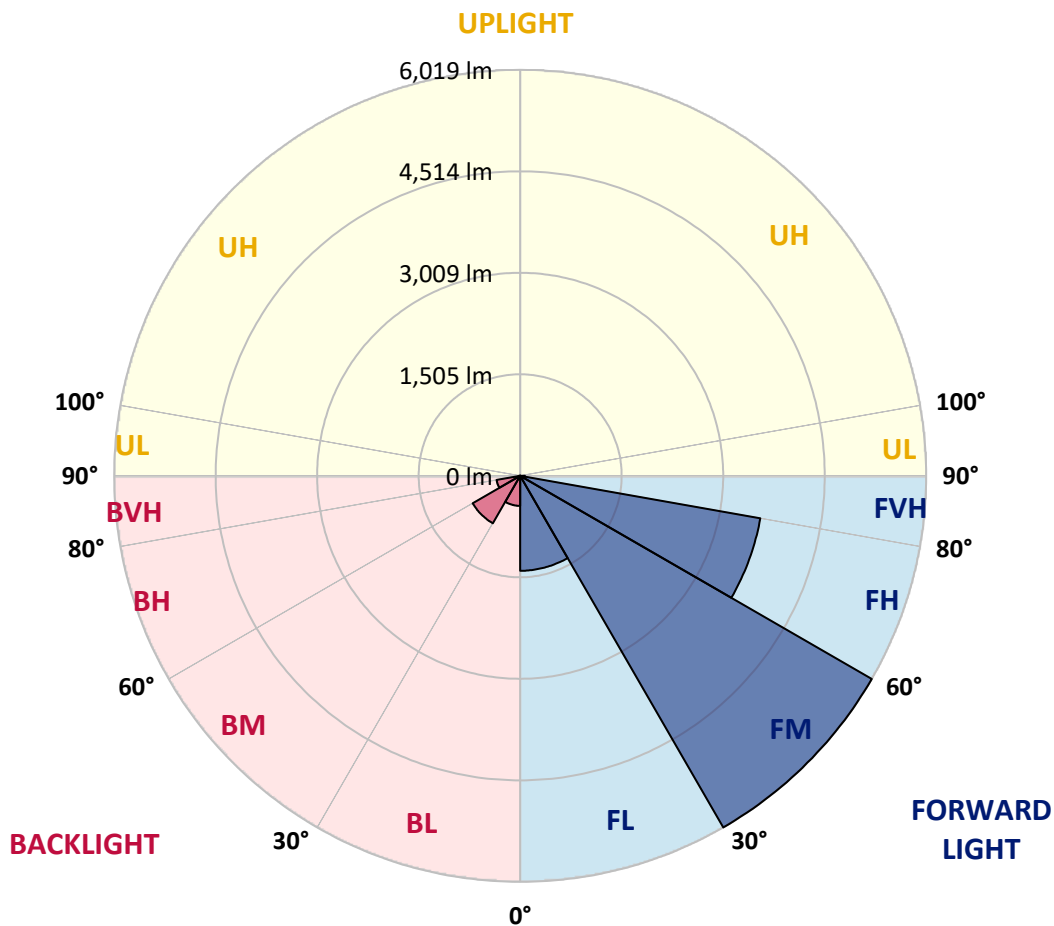
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1407.5	11.0			
FM	(30°-60°)	6018.7	47.2			
FH	(60°-80°)	3614.8	28.4			G2/5000
FVH	(80°-90°)	67.7	0.5			G1/100
BL	(0°-30°)	445.4	3.5	B1/500		
BM	(30°-60°)	812.5	6.4	B1/1000		
BH	(60°-80°)	355.4	2.8	B1/500		G1/500
BVH	(80°-90°)	23.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7
2.5°	2505.0	2496.9	2491.5	2462.0	2462.0	2421.6	2424.3	2386.7	2341.0	2268.4	2190.5
5°	2741.5	2730.7	2717.3	2687.7	2677.0	2636.7	2631.3	2577.5	2499.6	2373.3	2233.5
7.5°	2948.4	2937.7	2918.9	2875.9	2846.3	2797.9	2784.5	2714.6	2628.6	2472.7	2276.5
10°	3136.6	3128.5	3104.3	3050.6	3010.3	2951.1	2926.9	2832.9	2725.4	2553.3	2311.4
12.5°	3327.4	3316.7	3284.4	3238.7	3190.3	3120.4	3090.9	2969.9	2832.9	2642.0	2362.5
15°	3504.8	3488.7	3464.5	3416.1	3373.1	3305.9	3273.6	3131.2	2964.6	2741.5	2429.7
17.5°	3620.4	3606.9	3585.4	3558.5	3523.6	3472.5	3440.3	3300.5	3096.3	2838.2	2499.6
20°	3690.2	3684.9	3676.8	3660.7	3644.6	3609.6	3585.4	3453.7	3238.7	2932.3	2566.8
22.5°	3744.0	3738.6	3735.9	3735.9	3738.6	3725.2	3709.1	3596.2	3375.8	3031.8	2628.6
25°	3827.3	3824.6	3819.3	3813.9	3832.7	3835.4	3830.0	3752.1	3547.8	3163.5	2706.5
27.5°	3942.9	3934.8	3924.1	3918.7	3937.5	3951.0	3961.7	3908.0	3730.6	3297.8	2795.2
30°	4120.3	4096.1	4069.2	4050.4	4063.8	4085.3	4109.5	4077.3	3918.7	3464.5	2886.6
32.5°	4329.9	4300.4	4238.5	4203.6	4238.5	4254.7	4273.5	4257.4	4114.9	3644.6	2978.0
35°	4585.3	4550.3	4485.8	4434.7	4496.6	4461.6	4453.6	4437.4	4300.4	3821.9	3080.1
37.5°	5009.9	4958.9	4856.7	4743.8	4743.8	4668.6	4639.0	4590.6	4467.0	3980.5	3179.6
40°	5501.8	5434.6	5302.9	5136.2	4983.0	4827.2	4808.3	4773.4	4663.2	4163.3	3292.5
42.5°	6042.0	5913.0	5730.2	5528.6	5281.4	5104.0	5061.0	4961.5	4854.0	4348.7	3405.3
45°	6641.4	6372.6	6106.5	6004.4	5595.8	5434.6	5353.9	5173.9	5052.9	4542.3	3523.6
47.5°	6738.1	6528.5	6351.1	6335.0	5888.8	5754.4	5663.0	5405.0	5267.9	4749.2	3647.2
50°	6684.4	6558.0	6576.9	6512.4	6103.8	6015.1	5945.2	5652.3	5480.3	4948.1	3760.1
52.5°	6458.6	6528.5	6636.0	6517.7	6308.1	6235.5	6200.6	5918.4	5679.2	5130.9	3862.3
55°	6189.8	6238.2	6469.4	6614.5	6544.6	6480.1	6447.9	6227.5	5875.4	5284.1	3956.3
57.5°	5797.4	5775.9	6031.3	6598.4	6791.9	6754.3	6719.3	6531.2	6058.1	5394.3	4015.5
60°	5208.8	5163.1	5485.6	6275.8	6872.5	6931.6	6915.5	6732.7	6197.9	5391.6	3991.3
62.5°	4190.2	4303.0	4749.2	5749.0	6907.5	7058.0	7028.4	6748.9	6243.6	5235.7	3838.1
65°	3115.1	3276.3	3714.4	5023.4	6859.1	7122.5	7041.8	6485.5	6031.3	4926.6	3502.1
67.5°	2244.2	2386.7	2706.5	4133.7	6394.1	6826.8	6732.7	6055.4	5542.1	4488.5	3037.1
70°	1534.7	1636.8	1854.5	3010.3	5458.8	5902.2	5843.1	5413.1	4770.7	3967.1	2467.3
72.5°	1083.2	1126.2	1265.9	1986.2	4147.2	4630.9	4561.1	4453.6	3832.7	3297.8	1919.0
75°	811.7	838.6	913.8	1284.7	2797.9	3209.1	3144.6	3206.5	2862.4	2496.9	1397.6
77.5°	306.4	333.3	518.7	819.8	1655.6	1970.1	1905.6	1943.2	1591.1	1260.5	696.1
80°	83.3	88.7	172.0	389.7	752.6	981.0	892.3	766.0	591.3	580.5	368.2
82.5°	34.9	40.3	77.9	209.6	268.8	268.8	225.8	279.5	225.8	271.5	177.4
85°	13.4	16.1	18.8	53.8	34.9	37.6	40.3	53.8	45.7	56.4	40.3
87.5°	0.0	0.0	0.0	2.7	2.7	5.4	2.7	5.4	8.1	8.1	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7	2171.7
2.5°	2158.2	2128.7	2085.7	2015.8	1943.2	1902.9	1851.8	1843.8	1790.0	1784.6	1763.1
5°	2171.7	2109.9	1999.7	1865.3	1733.6	1631.4	1556.2	1515.9	1437.9	1437.9	1416.4
7.5°	2182.4	2085.7	1908.3	1709.4	1529.3	1392.2	1290.1	1247.1	1177.2	1171.8	1155.7
10°	2185.1	2056.1	1808.8	1550.8	1330.4	1190.7	1091.2	1042.8	981.0	975.6	964.9
12.5°	2206.6	2040.0	1720.1	1413.7	1188.0	1037.5	940.7	900.4	852.0	846.6	835.9
15°	2241.6	2040.0	1644.9	1298.2	1061.7	921.9	838.6	800.9	766.0	760.6	755.3
17.5°	2276.5	2034.6	1569.6	1190.7	956.8	830.5	757.9	728.4	701.5	698.8	693.4
20°	2308.8	2031.9	1494.4	1099.3	876.2	755.3	698.8	671.9	650.4	650.4	647.7
22.5°	2341.0	2026.5	1421.8	1013.3	806.3	698.8	650.4	620.9	604.7	604.7	602.1
25°	2389.4	2026.5	1354.6	940.7	749.9	655.8	607.4	585.9	572.5	569.8	569.8
27.5°	2445.8	2042.7	1295.5	876.2	701.5	612.8	575.2	553.7	537.5	532.2	534.9
30°	2507.6	2056.1	1241.7	819.8	655.8	580.5	540.2	518.7	502.6	497.2	499.9
32.5°	2569.5	2072.2	1193.3	768.7	610.1	551.0	510.7	486.5	470.4	467.7	467.7
35°	2636.7	2088.4	1145.0	725.7	572.5	521.4	483.8	456.9	446.2	440.8	443.5
37.5°	2703.9	2115.2	1099.3	685.4	545.6	494.5	459.6	432.7	424.7	422.0	422.0
40°	2784.5	2155.6	1080.5	658.5	521.4	470.4	440.8	413.9	405.8	405.8	405.8
42.5°	2851.7	2187.8	1064.3	628.9	502.6	448.8	422.0	400.5	395.1	392.4	395.1
45°	2918.9	2217.4	1042.8	602.1	478.4	427.3	405.8	384.3	379.0	379.0	379.0
47.5°	2986.1	2233.5	1013.3	575.2	456.9	408.5	389.7	370.9	365.5	365.5	365.5
50°	3039.8	2246.9	970.3	545.6	432.7	392.4	373.6	354.8	349.4	349.4	349.4
52.5°	3093.6	2249.6	924.6	510.7	408.5	373.6	357.5	338.7	333.3	330.6	330.6
55°	3141.9	2246.9	870.8	470.4	381.7	352.1	338.7	322.5	311.8	301.0	306.4
57.5°	3176.9	2244.2	809.0	430.0	354.8	330.6	325.2	303.7	282.2	255.3	260.7
60°	3163.5	2214.7	741.8	379.0	325.2	309.1	309.1	279.5	241.9	228.5	231.1
62.5°	3077.4	2131.4	671.9	325.2	295.6	287.6	284.9	252.6	223.1	209.6	212.3
65°	2819.4	1921.7	569.8	276.8	266.1	263.4	263.4	233.8	207.0	190.8	193.5
67.5°	2427.0	1612.6	465.0	233.8	236.5	241.9	241.9	215.0	188.1	172.0	174.7
70°	1945.9	1260.5	370.9	201.6	204.3	212.3	217.7	193.5	169.3	153.2	153.2
72.5°	1464.8	956.8	298.3	169.3	182.8	182.8	190.8	172.0	147.8	131.7	134.4
75°	1061.7	685.4	236.5	142.4	158.6	155.9	155.9	145.1	126.3	115.6	115.6
77.5°	502.6	360.2	188.1	102.1	123.6	120.9	123.6	115.6	107.5	96.8	99.4
80°	247.3	177.4	120.9	72.6	86.0	88.7	96.8	91.4	88.7	80.6	80.6
82.5°	118.3	69.9	56.4	51.1	59.1	61.8	67.2	67.2	69.9	64.5	64.5
85°	32.3	18.8	24.2	32.3	37.6	40.3	45.7	48.4	48.4	45.7	48.4
87.5°	8.1	8.1	10.8	16.1	18.8	21.5	24.2	24.2	10.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)